

OPEN DRAINS AND CHANNELS

1. INTRODUCTION

1.1. Definition

An open drain or channel system generally consists of a secondary drainage system, with a network of small drains attached (micro-drainage). Each serves a small catchment area that ranges from a single property to several blocks of houses (WHO 1991). These small drains bring the water to a primary drainage system, composed of main drains (also called interceptor drains), which serve large areas of the city. Thereafter these drains are generally connected with natural drainage channels such as rivers or streams (WHO 1991).

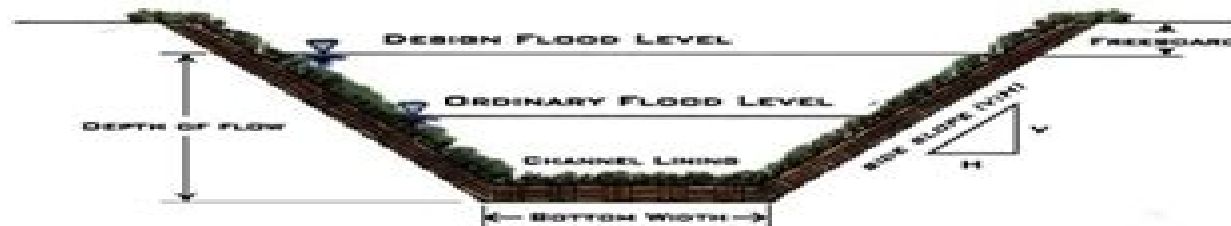


Figure 1: Typical Channel Cross Section

1.2. Purpose

An open drain or channel is used to provide discharge capacity required for flood prevention, drainage, other authorized water management purposes, or any combination of these purposes. (NRCS, IDAHO February 2003)

1.3. Objectives of the Open Drains and Channels Design

The following are the objectives in designing an open drains or channels:

- To design an open drains or channels having the capacity to carry or contain the design flood discharge to avoid or mitigate overbank flooding.
- To design a channel lining having the ability to withstand the flow velocities or shear stresses on the channel lining to prevent erodes.
- To design an economical and efficient open drains or channel section and mitigate any adverse impacts.

2. DATA REQUIREMENTS

2.1. Design Criteria

In general, the following criteria should be used for open drain and channel design:

Design Of Open Channels

David Kirk



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